

REPLACEMENT SHEET

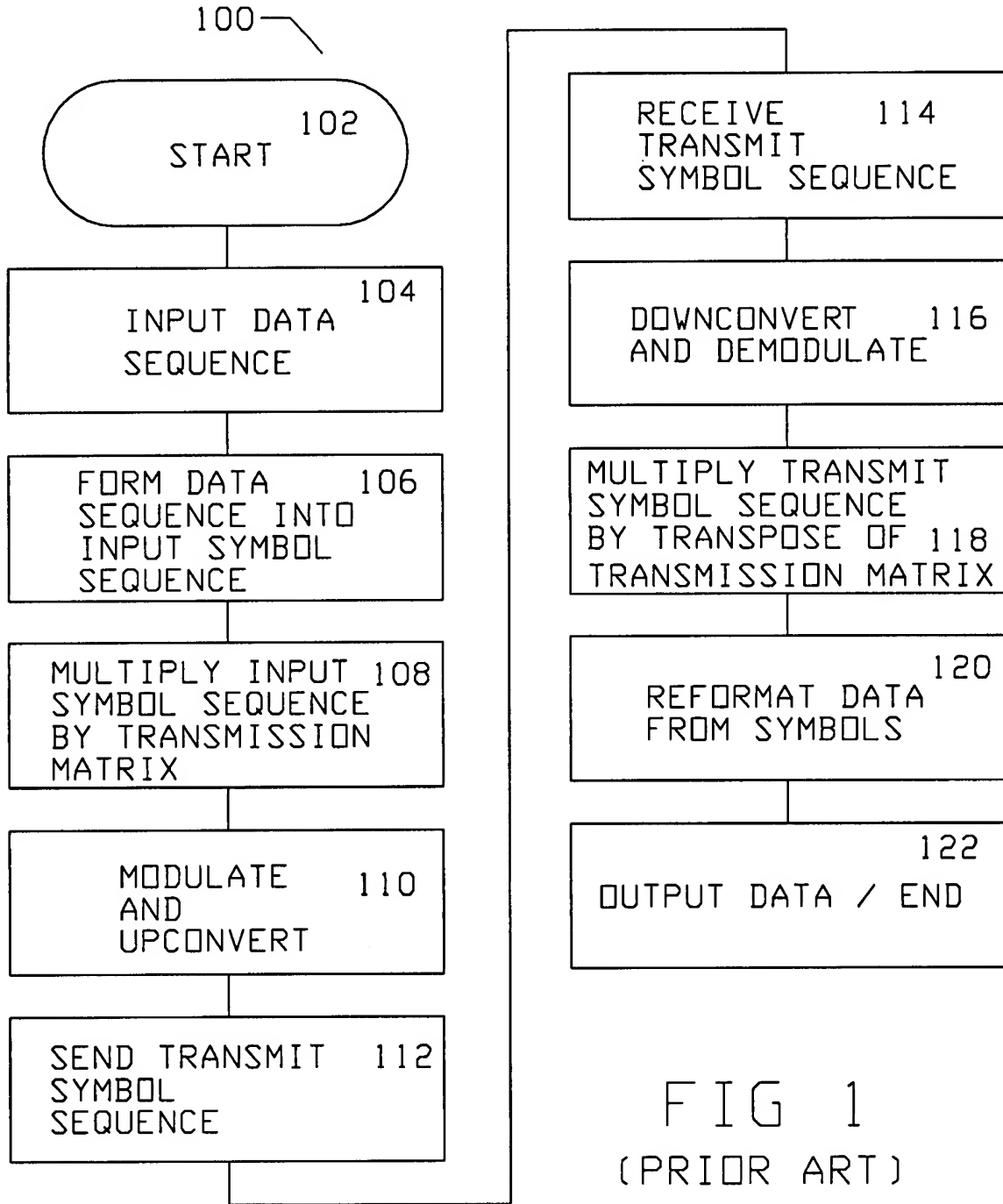


FIG 1
(PRIOR ART)



REPLACEMENT SHEET

300

$$E = [0 \ 1 \ 0 \ -1 \ 0] \quad 302$$

< INPUT SYMBOL SEQUENCE

$$C = \begin{bmatrix} 1 & 2 & 3 & 4 & 5 & 1 \\ -5 & -4 & -3 & -2 & -1 & 4 \\ 3 & 2 & -3 & -1 & -2 & -3 \\ 3 & -4 & -2 & 2 & 1 & 2 \\ 3 & -4 & 5 & 2 & 1 & -3 \end{bmatrix} \quad 304$$

< 2 DIMENSIONAL
TRANSMISSION MATRIX

$$F = E \cdot C = [-8 \ 0 \ -1 \ -4 \ -2 \ 2] \quad 306$$

< TRANSMIT SYMBOL
SEQUENCE

$$F5 = [-8 \ 0 \ -1 \ -4 \ 2] \quad 308$$

< RECEIVED SYMBOL
SEQUENCE WITH CORRUPT
TERM REMOVED

$$C5 = \begin{bmatrix} 1 & 2 & 3 & 4 & 1 \\ -5 & -4 & -3 & -2 & 4 \\ 3 & 2 & -3 & -1 & -3 \\ 3 & -4 & -2 & 2 & 2 \\ 3 & -4 & 5 & 2 & -3 \end{bmatrix} \quad 310$$

< TRANSMISSION MATRIX
WITH CORRUPT COLUMN
REMOVED

$$K5 = \begin{bmatrix} -.3528 & -.4410 & -.3658 & .2529 & -.1712 \\ -.0110 & -.1388 & -.0739 & -.0233 & -.1304 \\ -.2335 & -.2918 & -.3891 & .0350 & -.0545 \\ .6005 & .5006 & .5564 & -.1401 & .2179 \\ -.3268 & -.4086 & -.5447 & .2490 & -.2763 \end{bmatrix} \quad 312$$

< INVERSE
OF C5 IS A
RECOVERY
MATRIX

$$G = F5 \cdot K5 = [0 \ 1 \ 0 \ -1 \ 0] \quad 314$$

< OUTPUT SYMBOL
SEQUENCE

FIG 3